PCT/09

RAW SEQUENCE LISTING   DATE: 08/26/2002
PATENT APPLICATION: US/09/831,455A   TIME: 14:40:30

Input Set : A:\pf0634usn_seqlist.txt
Output Set: N:\CRF3\08262002\I831455A.raw

```
       2 <110> APPLICANT: INCYTE PHARMACEUTICALS, INC.
       3        TANG, Y. Tom
       4        HILLMAN, Jennifer L.
       5        YUE, Henry
       6        LAL, Preeti
       7        BANDMAN, Olga
       8        CORLEY, Neil C.
       9        GUEGLER, Karl J.
      10        BAUGHN, Mariah R.
      11        LU, Dyung Aina M.
      12        AZIMZAI, Yalda
      13        YANG, Junming
W--> 14 <120> TITLE OF INVENTION: HUMAN HYDROLASE PROTEINS
W--> 15 <130> FILE REFERENCE: PF-0634 PCT
W--> 16 <140> CURRENT APPLICATION NUMBER: To Be AssignedA
C--> 17 <141> CURRENT FILING DATE: 2002-08-26
      18 <150> PRIOR APPLICATION NUMBER: 09/190,937; unassigned; 60/135,519
W--> 19 <151> PRIOR FILING DATE: 1998-11-12; 1998-11-12; 1999-05-21
W--> 20 <160> NUMBER OF SEQ ID: 35
      21 <170> SOFTWARE: PERL Program
W--> 22 <210> SEQ ID NO: 1
      23 <211> LENGTH: 159
      24 <212> TYPE: PRT
      25 <213> ORGANISM: Homo sapiens
W--> 26 <220> FEATURE:
      27 <221> NAME/KEY: misc_feature
      28 <223> OTHER INFORMATION: Incyte ID No: 2293764CD1
W--> 29 <400> SEQUENCE: 1
      30 Met Lys Ala Trp Gly Thr Val Val Val Thr Leu Ala Thr Leu Met
      31   1               5                  10                  15
      32 Val Val Thr Val Asp Ala Lys Ile Tyr Glu Leu Cys Glu Leu Ala
      33                  20                  25                  30
      34 Ala Arg Leu Glu Arg Ala Gly Leu Asn Gly Tyr Lys Gly Tyr Gly
      35                  35                  40                  45
      36 Val Gly Asp Trp Leu Cys Met Ala His Tyr Glu Ser Gly Phe Asp
      37                  50                  55                  60
      38 Thr Ala Phe Val Asp His Asn Pro Asp Gly Ser Ser Glu Tyr Gly
      39                  65                  70                  75
      40 Ile Phe Gln Leu Asn Ser Ala Trp Trp Cys Asp Asn Gly Ile Thr
      41                  80                  85                  90
      42 Pro Thr Lys Asn Leu Cys His Met Asp Cys His Asp Leu Leu Asn
      43                  95                 100                 105
      44 Arg His Ile Leu Asp Asp Ile Arg Cys Ala Lys Gln Ile Val Ser
```

Does Not Comply Corrected Diskette Needed (stamp)

Please place prior application number directly above its filing date

RAW SEQUENCE LISTING   DATE: 08/26/2002
PATENT APPLICATION: US/09/831,455A   TIME: 14:40:30

Input Set : A:\pf0634usn_seqlist.txt
Output Set: N:\CRF3\08262002\I831455A.raw

```
45                     110              115              120
46 Ser Gln Asn Gly Leu Ser Ala Trp Thr Ser Trp Arg Leu His Cys
47                     125              130              135
48 Ser Gly His Asp Leu Ser Glu Trp Leu Lys Gly Cys Asp Met His
49                     140              145              150
50 Val Lys Ile Asp Pro Lys Ile His Pro
51                     155
52 <210> SEQ ID NO: 2
53 <211> LENGTH: 285
54 <212> TYPE: PRT
55 <213> ORGANISM: Homo sapiens
56 <220> FEATURE:
57 <221> NAME/KEY: misc_feature
58 <223> OTHER INFORMATION: Incyte ID No: 949738CD1
59 <400> SEQUENCE: 2
60 Met Gly Thr Pro Gly Glu Gly Leu Gly Arg Cys Ser His Ala Leu
61   1               5               10               15
62 Ile Arg Gly Val Pro Glu Ser Leu Ala Ser Gly Glu Gly Ala Gly
63                     20               25               30
64 Ala Gly Leu Pro Ala Leu Asp Leu Ala Lys Ala Gln Arg Glu His
65                     35               40               45
66 Gly Val Leu Gly Gly Lys Leu Arg Gln Arg Leu Gly Leu Gln Leu
67                     50               55               60
68 Leu Glu Leu Pro Pro Glu Glu Ser Leu Pro Leu Gly Pro Leu Leu
69                     65               70               75
70 Gly Asp Thr Ala Val Ile Gln Gly Asp Thr Ala Leu Ile Thr Arg
71                     80               85               90
72 Pro Trp Ser Pro Ala Arg Arg Pro Glu Val Asp Gly Val Arg Lys
73                     95              100              105
74 Ala Leu Gln Asp Leu Gly Leu Arg Ile Val Glu Ile Gly Asp Glu
75                     110              115              120
76 Asn Ala Thr Leu Asp Gly Thr Asp Val Leu Phe Thr Gly Arg Glu
77                     125              130              135
78 Phe Phe Val Gly Leu Ser Lys Trp Thr Asn His Arg Gly Ala Glu
79                     140              145              150
80 Ile Val Ala Asp Thr Phe Arg Asp Phe Ala Val Ser Thr Val Pro
81                     155              160              165
82 Val Ser Gly Pro Ser His Leu Arg Gly Leu Cys Gly Met Gly Gly
83                     170              175              180
84 Pro Arg Thr Val Val Ala Gly Ser Ser Asp Ala Ala Gln Lys Ala
85                     185              190              195
86 Val Arg Ala Met Ala Val Leu Thr Asp His Pro Tyr Ala Ser Leu
87                     200              205              210
88 Thr Leu Pro Asp Asp Ala Ala Ala Asp Cys Leu Phe Leu Arg Pro
89                     215              220              225
90 Gly Leu Pro Gly Val Pro Pro Phe Leu Leu His Arg Gly Gly Gly
91                     230              235              240
92 Asp Leu Pro Asn Ser Gln Glu Ala Leu Gln Lys Leu Ser Asp Val
93                     245              250              255
```

RAW SEQUENCE LISTING   DATE: 08/26/2002
PATENT APPLICATION: US/09/831,455A   TIME: 14:40:30

Input Set : A:\pf0634usn_seqlist.txt
Output Set: N:\CRF3\08262002\I831455A.raw

```
 94 Thr Leu Val Pro Val Ser Cys Ser Glu Leu Glu Lys Ala Gly Ala
 95             260             265             270
 96 Gly Leu Ser Ser Leu Cys Leu Val Leu Ser Thr Arg Pro His Ser
 97             275             280             285
 98 <210> SEQ ID NO: 3
 99 <211> LENGTH: 331
100 <212> TYPE: PRT
101 <213> ORGANISM: Homo sapiens
102 <220> FEATURE:
103 <221> NAME/KEY: misc_feature
104 <223> OTHER INFORMATION: Incyte ID No: 1297034CD1
105 <400> SEQUENCE: 3
106 Met Trp Leu Trp Glu Asp Gln Gly Gly Leu Leu Gly Pro Phe Ser
107   1           5             10                    15
108 Phe Leu Leu Leu Val Leu Leu Leu Val Thr Arg Ser Pro Val Asn
109              20             25                    30
110 Ala Cys Leu Leu Thr Gly Ser Leu Phe Val Leu Leu Arg Val Phe
111              35             40                    45
112 Ser Phe Glu Pro Val Pro Ser Cys Arg Ala Leu Gln Val Leu Lys
113              50             55                    60
114 Pro Arg Asp Arg Ile Ser Ala Ile Ala His Arg Gly Gly Ser His
115              65             70                    75
116 Asp Ala Pro Glu Asn Thr Leu Ala Ala Ile Arg Gln Ala Ala Lys
117              80             85                    90
118 Asn Gly Ala Thr Gly Val Glu Leu Asp Ile Glu Phe Thr Ser Asp
119              95            100                   105
120 Gly Ile Pro Val Leu Met His Asp Asn Thr Val Asp Arg Thr Thr
121             110            115                   120
122 Asp Gly Thr Gly Arg Leu Cys Asp Leu Thr Phe Glu Gln Ile Arg
123             125            130                   135
124 Lys Leu Asn Pro Ala Ala Asn His Arg Leu Arg Asn Asp Phe Pro
125             140            145                   150
126 Asp Glu Lys Ile Pro Thr Leu Arg Glu Ala Val Ala Glu Cys Leu
127             155            160                   165
128 Asn His Asn Leu Thr Ile Phe Phe Asp Val Lys Gly His Ala His
129             170            175                   180
130 Lys Ala Thr Glu Ala Leu Lys Lys Met Tyr Met Glu Phe Pro Gln
131             185            190                   195
132 Leu Tyr Asn Asn Ser Val Val Cys Ser Phe Leu Pro Glu Val Ile
133             200            205                   210
134 Tyr Lys Met Arg Gln Thr Asp Arg Asp Val Ile Thr Ala Leu Thr
135             215            220                   225
136 His Arg Pro Trp Ser Leu Ser His Thr Gly Asp Gly Lys Pro Arg
137             230            235                   240
138 Tyr Asp Thr Phe Trp Lys His Phe Ile Phe Val Met Met Asp Ile
139             245            250                   255
140 Leu Leu Asp Trp Ser Met His Asn Ile Leu Trp Tyr Leu Cys Gly
141             260            265                   270
142 Ile Ser Ala Phe Leu Met Gln Lys Asp Phe Val Ser Pro Ala Tyr
```

RAW SEQUENCE LISTING   DATE: 08/26/2002
PATENT APPLICATION: US/09/831,455A   TIME: 14:40:30

Input Set : A:\pf0634usn_seqlist.txt
Output Set: N:\CRF3\08262002\I831455A.raw

```
143                     275                     280                     285
144 Leu Lys Lys Trp Ser Ala Lys Gly Ile Gln Val Val Gly Trp Thr
145                     290                     295                     300
146 Val Asn Thr Phe Asp Glu Lys Ser Tyr Tyr Glu Ser His Leu Gly
147                     305                     310                     315
148 Ser Ser Tyr Ile Thr Asp Ser Met Val Glu Asp Cys Glu Pro His
149                     320                     325                     330
150 Phe
151 <210> SEQ ID NO: 4
152 <211> LENGTH: 153
153 <212> TYPE: PRT
154 <213> ORGANISM: Homo sapiens
155 <220> FEATURE:
156 <221> NAME/KEY: misc_feature
157 <223> OTHER INFORMATION: Incyte ID No: 1553276CD1
158 <400> SEQUENCE: 4
159 Met Ala Ala Ala Leu Ala Leu Val Ala Gly Val Leu Ser Gly Ala
160  1               5                   10                  15
161 Val Leu Pro Leu Trp Ser Ala Leu Pro Gln Tyr Lys Lys Lys Ile
162                 20                  25                  30
163 Thr Asp Arg Cys Phe His His Ser Glu Cys Tyr Ser Gly Cys Cys
164                 35                  40                  45
165 Leu Met Asp Leu Asp Ser Gly Gly Ala Phe Cys Ala Pro Arg Ala
166                 50                  55                  60
167 Arg Ile Thr Met Ile Cys Leu Pro Gln Trp Leu Glu Leu Phe Lys
168                 65                  70                  75
169 Gly Arg Asp Cys Ile Ile Phe Ile Tyr Glu Ala Pro Thr Pro Ser
170                 80                  85                  90
171 Leu Val Ser Ala His Asn Gln Gly Ser Tyr Gln His His Leu Pro
172                 95                  100                 105
173 Leu Pro Asp Gly Leu Asp Val His Ile Gln Gly Leu Asp Val Phe
174                 110                 115                 120
175 Pro Pro Val Pro Tyr Asp Leu Glu Glu Asp Ala Gly Trp Ser Leu
176                 125                 130                 135
177 Leu Pro Trp Gly His Arg Pro Trp Leu Pro Pro Thr Cys Ser Lys
178                 140                 145                 150
179 Ser Ser Ser
180 <210> SEQ ID NO: 5
181 <211> LENGTH: 571
182 <212> TYPE: PRT
183 <213> ORGANISM: Homo sapiens
184 <220> FEATURE:
185 <221> NAME/KEY: misc_feature
186 <223> OTHER INFORMATION: Incyte ID No: 1702211CD1
187 <400> SEQUENCE: 5
188 Met Glu Arg Ala Val Arg Val Glu Ser Gly Val Leu Val Gly Val
189  1               5                   10                  15
190 Val Cys Leu Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu
191                 20                  25                  30
```

RAW SEQUENCE LISTING   DATE: 08/26/2002
PATENT APPLICATION: US/09/831,455A   TIME: 14:40:30

Input Set : A:\pf0634usn_seqlist.txt
Output Set: N:\CRF3\08262002\I831455A.raw

```
192 Val Ala Gln Pro Glu Val Asp Thr Thr Leu Gly Arg Val Arg Gly
193                 35              40                  45
194 Arg Gln Val Gly Val Lys Gly Thr Asp Arg Leu Val Asn Val Phe
195                 50              55                  60
196 Leu Gly Ile Pro Phe Ala Gln Pro Pro Leu Gly Pro Asp Arg Phe
197                 65              70                  75
198 Ser Ala Pro His Pro Ala Gln Pro Trp Glu Gly Val Arg Asp Ala
199                 80              85                  90
200 Ser Thr Ala Pro Pro Met Cys Leu Gln Asp Val Glu Ser Met Asn
201                 95              100                 105
202 Ser Ser Arg Phe Val Leu Asn Gly Lys Gln Gln Ile Phe Ser Val
203                 110             115                 120
204 Ser Glu Asp Cys Leu Val Leu Asn Val Tyr Ser Pro Ala Glu Val
205                 125             130                 135
206 Pro Ala Gly Ser Gly Arg Pro Val Met Val Trp Val His Gly Gly
207                 140             145                 150
208 Ala Leu Ile Thr Gly Ala Ala Thr Ser Tyr Asp Gly Ser Ala Leu
209                 155             160                 165
210 Ala Ala Tyr Gly Asp Val Val Val Thr Val Gln Tyr Arg Leu
211                 170             175                 180
212 Gly Val Leu Gly Phe Phe Ser Thr Gly Asp Glu His Ala Pro Gly
213                 185             190                 195
214 Asn Gln Gly Phe Leu Asp Val Val Ala Ala Leu Arg Trp Val Gln
215                 200             205                 210
216 Glu Asn Ile Ala Pro Phe Gly Gly Asp Leu Asn Cys Val Thr Val
217                 215             220                 225
218 Phe Gly Gly Ser Ala Gly Gly Ser Ile Ile Ser Gly Leu Val Leu
219                 230             235                 240
220 Ser Pro Val Ala Ala Gly Leu Phe His Arg Ala Ile Thr Gln Ser
221                 245             250                 255
222 Gly Val Ile Thr Thr Pro Gly Ile Ile Asp Ser His Pro Trp Pro
223                 260             265                 270
224 Leu Ala Gln Lys Ile Ala Asn Thr Leu Ala Cys Ser Ser Ser Ser
225                 275             280                 285
226 Pro Ala Glu Met Val Gln Cys Leu Gln Gln Lys Glu Gly Glu Glu
227                 290             295                 300
228 Leu Val Leu Ser Lys Lys Leu Lys Asn Thr Ile Tyr Pro Leu Thr
229                 305             310                 315
230 Val Asp Gly Thr Val Phe Pro Lys Ser Pro Lys Glu Leu Leu Lys
231                 320             325                 330
232 Glu Lys Pro Phe His Ser Val Pro Phe Leu Met Gly Val Asn Asn
233                 335             340                 345
234 His Glu Phe Ser Trp Leu Ile Pro Arg Gly Trp Gly Leu Leu Asp
235                 350             355                 360
236 Thr Met Glu Gln Met Ser Arg Glu Asp Met Leu Ala Ile Ser Thr
237                 365             370                 375
238 Pro Val Leu Thr Ser Leu Asp Val Pro Pro Glu Met Met Pro Thr
239                 380             385                 390
240 Val Ile Asp Glu Tyr Leu Gly Ser Asn Ser Asp Ala Gln Ala Lys
```

```
L:14  M:283 W: Missing Blank Line separator, <120> field identifier
L:15  M:283 W: Missing Blank Line separator, <130> field identifier
L:16  M:283 W: Missing Blank Line separator, <140> field identifier
L:16  M:270 C: Current Application Number differs, Replaced Current Application Number
L:17  M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:19  M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:20  M:283 W: Missing Blank Line separator, <160> field identifier
L:22  M:283 W: Missing Blank Line separator, <210> field identifier
L:26  M:283 W: Missing Blank Line separator, <220> field identifier
L:29  M:283 W: Missing Blank Line separator, <400> field identifier
L:56  M:283 W: Missing Blank Line separator, <220> field identifier
L:59  M:283 W: Missing Blank Line separator, <400> field identifier
L:102 M:283 W: Missing Blank Line separator, <220> field identifier
L:105 M:283 W: Missing Blank Line separator, <400> field identifier
L:155 M:283 W: Missing Blank Line separator, <220> field identifier
L:158 M:283 W: Missing Blank Line separator, <400> field identifier
L:184 M:283 W: Missing Blank Line separator, <220> field identifier
L:187 M:283 W: Missing Blank Line separator, <400> field identifier
L:269 M:283 W: Missing Blank Line separator, <220> field identifier
L:272 M:283 W: Missing Blank Line separator, <400> field identifier
L:324 M:283 W: Missing Blank Line separator, <220> field identifier
L:327 M:283 W: Missing Blank Line separator, <400> field identifier
L:358 M:283 W: Missing Blank Line separator, <220> field identifier
L:361 M:283 W: Missing Blank Line separator, <400> field identifier
L:415 M:283 W: Missing Blank Line separator, <220> field identifier
L:418 M:283 W: Missing Blank Line separator, <400> field identifier
L:465 M:283 W: Missing Blank Line separator, <220> field identifier
L:468 M:283 W: Missing Blank Line separator, <400> field identifier
L:538 M:283 W: Missing Blank Line separator, <220> field identifier
L:541 M:283 W: Missing Blank Line separator, <400> field identifier
L:566 M:283 W: Missing Blank Line separator, <220> field identifier
L:569 M:283 W: Missing Blank Line separator, <400> field identifier
L:598 M:283 W: Missing Blank Line separator, <220> field identifier
L:601 M:283 W: Missing Blank Line separator, <400> field identifier
L:656 M:283 W: Missing Blank Line separator, <220> field identifier
L:659 M:283 W: Missing Blank Line separator, <400> field identifier
L:750 M:283 W: Missing Blank Line separator, <220> field identifier
L:753 M:283 W: Missing Blank Line separator, <400> field identifier
L:800 M:283 W: Missing Blank Line separator, <220> field identifier
L:803 M:283 W: Missing Blank Line separator, <400> field identifier
L:868 M:283 W: Missing Blank Line separator, <220> field identifier
L:871 M:283 W: Missing Blank Line separator, <400> field identifier
L:889 M:283 W: Missing Blank Line separator, <220> field identifier
L:892 M:283 W: Missing Blank Line separator, <400> field identifier
L:918 M:283 W: Missing Blank Line separator, <220> field identifier
L:921 M:283 W: Missing Blank Line separator, <400> field identifier
L:962 M:283 W: Missing Blank Line separator, <220> field identifier
L:965 M:283 W: Missing Blank Line separator, <400> field identifier
```

VERIFICATION SUMMARY   DATE: 08/26/2002
PATENT APPLICATION: US/09/831,455A   TIME: 14:40:32

Input Set : **A:\pf0634usn_seqlist.txt**
Output Set: **N:\CRF3\08262002\I831455A.raw**

```
L:979  M:283 W: Missing Blank Line separator, <220> field identifier
L:982  M:283 W: Missing Blank Line separator, <400> field identifier
L:1023 M:283 W: Missing Blank Line separator, <220> field identifier
L:1026 M:283 W: Missing Blank Line separator, <400> field identifier
L:1062 M:283 W: Missing Blank Line separator, <220> field identifier
L:1399 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:33
L:1426 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:34
L:1451 M:256 W: Invalid Numeric Header Field, <300> has non-blank data
L:1453 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:35
```

```
<210> 35
<211> 148
<212> PRT
<213> Nasalis larvatus
<300> (misc_feature)
<308> GenBank ID No: g1790984
<400> 35
Met Lys Ala Leu Ile Ile Leu Gly Leu Val Leu Leu Ser Val Thr
 1               5                  10                  15
```

delete — do not insert response to <300>. It is a header only

→ <309? this is mandatory* with response

whenever <308> has a response

(same error in seqs 33-34)